CLAIMS

1. A pneumatic agricultural tire (10) having a carcass (20) having two or more bias plies (21, 22, 23, 24), the first ply (21) having cords (25) oriented substantially equally but opposite relative to cords (25) of the second bias ply (22), and a radially outer tread (12) having a tread width (T_W) and a pair of radially inwardly extending sidewalls (17, 18), the outer surface of the sidewalls (17, 18) defining the tires section width (S_W), the tire (10) when normally inflated and mounted on a rim (30) has the tread width (T_W) is greater than or equal to the maximum section width (S_W) of the tire (10), the tire being characterized by: the tire (10) being an implement tire with the tread (12) having a plurality of circumferentially extending grooves (11) and wherein each sidewall (17,18) adjacent to the tread has an annular concavity (19).

2. The pneumatic agriculture tire (10) of claim 1 wherein the annular concavity (19) is defined by a single radius of curvature R_1.

3. The pneumatic agricultural tire (10) of claim 1 wherein interposed between the tread (12) and sidewall (17,18) is a annular shoulder buttress 15 extending radially inward of the tread (12) and outward of the carcass plies (21, 22, 23, 24).

4. The pneumatic agricultural tire of claim 1 wherein the shoulder buttress (15) has a outer surface characterized by an annular groove (13).